Planning

Total Time: 12 Weeks

(6.19 - 8.28)

Step 1: planning, background and reading

Time: 1 week (6.19 -- 6.25)

- 1. Writing Plan (1 day)
- 2. Search material and finish the background (1 2 days)
- 3. Reading the tutorial about OpenCL API and SDL API (the rest time)

Step 2: design and development

Time: 3 weeks (6.26 -- 7.16)

- 1. Reading and understanding the source code about the plain C uxn VM. (2 3 days)
- 2. Communicating with the supervisor to clarify any unclear aspects and determine which parts are relatively **easier to start with.** (1 2 days)
- 3. Coding the system (the rest time)
- 4. Writing scripts which about Compilation and Execution (the rest time)

Step 3: Testing

Time: 2 weeks (7.17 -- 7.30)

- 1. Searching for research papers and materials on how to test a VM (as I have no prior experience in testing virtual machine systems) (0.5 weeks)
- 2. Run and test this system on multiple platforms, including GPUs, CPUs, etc. (the rest time)
- 3. Distribute this system to fellow group members who use it for their projects. Request them to use it and provide feedback on its usage. (Proceed with both tasks simultaneously)
- 4. Search for methods for comparing carbon consumption across different platforms and use this system for comparison. (0.5 weeks)

Step 4: Report/paper

Time: 2 weeks (7.31 -- 8.13)

- 1. Finish the Background, System Explanation, Important Code Explanation, and Testing part and Finalize Draft (1 week)
- 2. Revise and Refine (1 week)

Step 5: More

I don't know if there is a possibility of publishing this project in a journal in the end (I have only attempted to publish in a Chinese journal once before, and I know that the process can be particularly challenging) or if additional work needs to be done. I hope to do better.